From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

BLAKEY, Alison PROSIDION LIMITED APR 2006 NOTIFICATION OF TRANSMITTAL OF Windrush Court THE INTERNATIONAL PRELIMINARY Watlington Road Oxford, Oxfordshire OX46LT REPORT ON PATENTABILITY (PCT Rule 71.1) Date of mailing (day/month/year) 03.04.2006 Applicant's or agent's file reference **IMPORTANT NOTIFICATION** NC10009WO International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/GB2004/050046 23.12.2004 24.12.2003 Applicant PROSIDION LIMITED et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NC10009WO		FOR FURTHER	ACTION	See Form PCT/IPEA/410	 6		
International application PCT/GB2004/05004		International filing date 23.12.2004	e (day/month/year)	Priority date (day/mor			
		ational classification and D413/12 A61K31/42		24.12.2000			
Applicant PROSIDION LIMIT	ED et al.						
This report is the Authority under	e international pre Article 35 and trar	liminary examination in the application in the appl	eport, established by nt according to Article	this International Prelimire 36.	nary Examining		
2. This REPORT of	consists of a total of	of 8 sheets, including	this cover sheet.				
3. This report is al	so accompanied b	y ANNEXES, compris	ing:				
a. 🛭 sent to ti	he applicant and to	the International Bur	eau) a total of 5 shee	ets, as follows:			
⊠ shee and/							
beyo	<u> </u>						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in celectronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report cont	ains indications rel	ating to the following i	tems:				
☑ Box No. I	Basis of the repo	ort					
Box No. II	Priority						
☑ Box No. III	•	ent of opinion with requ	ard to novelty invention	ve step and industrial app	liaab III.		
☐ Box No. IV	Lack of unity of i		ara to novery, invention	ve step and industrial app	icability		
⊠ Box No. V	•						
🖾 Box No. VI	Certain documer	nts cited					
☑ Box No. VII	Certain defects i	n the international app	lication				
☑ Box No. VIII	Certain observat	ions on the internation	al application				
Date of submission of the	e demand		Date of completion of	this report			
24.10.2005			03.04.2006				
Name and mailing addre		ıl	Authorized officer		militas Pittang		
European	Patent Office		_		M. I		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Samsam Bakhtiar	y, M			
Fax: +49 8	9 2399 - 4465		Telephone No. +49 89	2399-8556	A Marie Control		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/050046

(AP20 Rec'd PCT/PTO 22 JUN 2006

_		0011 200	_
	Box No. I	Basis of the report	
1.	With regar filed, unles	rd to the language , this report is based on the international application in the language in which it was otherwise indicated under this item.	/as
	☐ This re which	report is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:	
	☐ pul	ternational search (under Rules 12.3 and 23.1(b)) Ablication of the international application (under Rule 12.4) American preliminary examination (under Rules 55.2 and/or 55.3)	
2.	nave been	rd to the elements* of the international application, this report is based on (replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this "originally filed" and are not annexed to this report):	ch
	Description	n, Pages	
	1-63	as originally filed	
	Claims, Nu	imbers .	
1-16		received on 28.10.2005 with letter of 24.10.2005	
	□ a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	☐ The ar	mendments have resulted in the cancellation of:	
		e description, pages	
		e claims, Nos. e drawings, sheets/figs	
		e sequence listing (specify):	
	☐ any	y table(s) related to sequence listing (specify):	
4.	Supplemen	eport has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the ntal Box (Rule 70.2(c)).	
	☐ the	e description, pages e claims, Nos.	
		e drawings, sheets/ligs	
	☐ the	sequence listing (specify):	
		y table(s) related to sequence listing (specify):	
	* If it	em 4 applies, some or all of these sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/050046

_							
	Bo	x No. II	Priority	-			
1.	☒	This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:					
		⊠ cop	y of the earlier applicat	ion w	hose priority has been claimed (Rule 66.7(a)).		
		☐ tran	slation of the earlier ap	plica	tion whose priority has been claimed (Rule 66.7(b)).		
2.		This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.					
3.	Add	ditional o	bservations, if necessa	ıry:			
		x No. III olicabilit	Non-establishment y	of op	pinion with regard to novelty, inventive step and industrial		
1.	The obv	e questio vious), or	ns whether the claimed to be industrially appli	inve cable	ention appears to be novel, to involve an inventive step (to be non- have not been examined in respect of:		
		the enti	re international applica	tion,			
	\boxtimes	claims Nos. 12-16					
		because:					
	⊠	the said international application, or the said claims Nos. 12-16 only with regard of industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):					
		see sep	parate sheet				
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the writt	en form		has not been furnished		
					does not comply with the standard		
		the com	puter readable form	. -	has not been furnished		
					does not comply with the standard		
		the table not com	es related to the nucled ply with the technical r	tide a equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
		See sep	parate sheet for further	detai	is .		

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

1-16

1-16

No: Claims

Industrial applicability (IA)

Yes: Claims

1-11 12-16

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and/or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

International application No.

PCT/GB2004/050046

IAPZO Rec'd PCT/PTO 22 JUN 2006

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. Claims 12-16 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).
- 2. The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claim(s) is impossible. Consequently, the search has been restricted to:

The compounds given in Formula I of claim 1, where:

- V is the formula of claim 2, W = N; X and Y are N or O
- A is (CH2)_n, n=0

The amendments made namely introducing features of claims 2,3, 4,7 and 8 into claim 1 and introducing the preferred embodiments where A is (CH2)_n, n=0 (see description page 3, line 43 and page 5, line 43), leads that this limited scope has been searched.

Claim 10 seems to correspond to original claim 17.

No added subject matter seems to occur.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-January 2004)

- D1: WO 98/17652 A (BOEHRINGER INGELHEIM PHARMA KG; BOEHRINGER INGELHEIM INTERNATIONAL GMB) 30 April 1998 (1998-04-30)
- D2: WO 01/12627 A (NPS PHARMACEUTICALS, INC; VAN WAGENEN, BRADFORD, C; STORMANN, THOMAS,) 22 February 2001 (2001-02-22)
- D3: WO 02/068417 A (NPS PHARMACEUTICALS, INC; SLASSI, ABDELMALIK; VAN WAGENEN, BRADFORD; S) 6 September 2002 (2002-09-06)
- D4: US-B1-6 239 160 (TIEBES JOERG ET AL) 29 May 2001 (2001-05-29)
- D5: WILLIAMS J P ET AL: "A solution-phase combinatorial synthesis of selective dopamine D4 ligands" COMBINATORIAL CHEMISTRY AND HIGH THROUGHPUT SCREENING, HILVERSUM, NL, vol. 3, no. 1, February 2000 (2000-02), pages 43-50, XP002280990 ISSN: 1386-2073
- D6: WO 00/24735 A (DOW AGROSCIENCES LLC) 4 May 2000 (2000-05-04)
- D7: WO 00/35913 A (AVENTIS CROPSCIENCE GMBH) 22 June 2000 (2000-06-22)
- D8: WO 97/46556 A (MERCK & CO., INC; BIFTU, TESFAYE; FENG, DANQING, DENNIS; FISHER, MICHA) 11 December 1997 (1997-12-11)
- D9: WO 2004/060362 A (MILLENNIUM PHARMACEUTICALS, INC; SCARBOROUGH, ROBERT, M; PANDEY, ANJAL) 22 July 2004 (2004-07-22)

2. Novelty

The claimed subject matter of this application is concerned with derivatives useful against satiety or obesity or diabetes.

The documents D3-D7 (see search report for appropriate location of in document) disclose specific compounds that do not affect novelty of the claimed subject matter. We agree with the analysis made by the Applicant, indeed by limiting n=2 or 3 in claim 1, novelty is restored.

These compounds do not have the same activity as those of this application, therefore are only relevant against novelty.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-January 2004)

3. Inventive step

Documents D1 and D2 disclose compounds having different pharmaceutical activities, namely the usefulness against neurodegenerative disorders such as diabetic neuropathic disorders (D1, page 66,line 17-page 67, line 1; D2, page 5, lines 19-22). The closest prior art may be considered as being D8, which disclose compounds useful for the treatment of diabetes and/or obesity.

The problem to be solved by this application would be to provide novel derivatives useful against diabetes and/or obesity.

In view of the drastic stuctural differences from the compounds of D8 and those claimed in this application, the skilled man would not obviously derive to the claimed subject matter.

Re Item VI

Certain documents cited

Document D9, cited a PX in the search report may become relevant if this application is further proceeded in european phase.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D7,D9 is not mentioned in the description, nor are these documents identified therein.

Form PCT/Separate Sheet/409 (Sheet 3) (EPO-January 2004)

Re Item VIII

Certain observations on the international application

For the assessment of the present claims 12-16 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.